PowerLite® Home Cinema 6500 UB
Home Theater Projector

EPSON®
EXCEED YOUR VISION

**A stunning 1080p cinematic experience.
Powerful performance advantages.**

Enjoy the home theater experience in a way you never thought possible. With a 75,000:1 contrast ratio, the highest currently available in its class, the Epson PowerLite Home Cinema 6500 UB puts you right in the middle of where the action is, as larger–than–life images leap right off the screen. Whether you're watching movies or sports, this 1080p projector ensures amazing image quality with the latest–generation Epson D7 chip, UltraBlack™ technology and 1600 lumens of color and white light output.* With a state–of–the–art Fujinon lens, a brand trusted by renowned Hollywood filmmakers, this product delivers blockbuster video performance. And, with Epson's 3LCD, 3–chip optical engine, it offers such incredible quality, you're sure to achieve a true cinematic experience. The PowerLite Home Cinema 6500 UB brings big–screen entertainment home in a whole new way.

P o w e r L i t e   H o m e   C i n e m a   6 5 0 0   U B

A stunning 1080p cinematic experience. Powerful performance.

3LCD technology — for quality and color that's beyond amazing

Whether it's a blockbuster movie or live sporting event, 3LCD technology takes video performance to the next level.

- **3-Chip Optical Engine** — All 3LCD projectors use a 3-chip optical engine to deliver incredibly bright, true-to-life color. Unlike other technologies, 3LCD projectors do not rely on a spinning color wheel to produce color.
- **High Color Light Output** — 3LCD projectors consistently deliver high Color and White Light Output so video images always look their very best.
- **Road-Tested Reliability** — 3LCD technology has been the world leader for 19 years and has consistently been the choice of users who demand the long-life performance and reliability.

Importance of Color Light Output

Color Light Output is a metric reported in lumens that measures a projector's ability to deliver color. Developed by color scientists, Color Light Output provides a simple and accurate way to evaluate projector Color Performance.

Color Light Output is critically important because color is a key indicator of picture quality. Color light output provides users with a way to evaluate a projector's Color Performance to make better buying decisions. An equivalent lumens measurement of Color Light Output and White Light Output results in optimal Color Performance.

The image on the right is from a projector with equal Color Light Output and White Light Output.

Competing Projector Image***

Epson Projector Image***

Amazing 1080p image quality.

7 color modes

Dynamic, Living Room, Natural, Theater, Theater Black 1, Theater Black 2, x.v.Color

Lumens

1600 lumens color light output, 1600 lumens white light output (ISO 21118 standard)
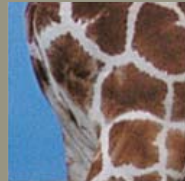
Silicon Optix HQV Reon-VX processor

The Silicon Optix HQV processor is the reference standard in deinterlacing and scaling. Its Floating Point Gate Array technology realizes an incredible one trillion processing operations per second. In fact, this system provides a host of processing, deinterlacing and scaling benefits. And it delivers true, four–field, pixel–by–pixel processing, even with 1080i/60 Hz HD program material. With standard definition (SD) and high definition (HD) interlaced content (DVDs, TV shows, 1080i HDTV broadcasts), the Reon–VX smooths jagged edges on low–angle solid lines and flat edges. MPEG compression–related artifacts, such as mosquito noise, are reduced due to the Reon's processing prowess. MPEG compression works via 8x8 pixel blocks — Reon–VX block–noise reduction minimizes block noise artifacts, restoring a natural picture. For poor contrast image sources, such as SD broadcast, cable and video tape, Reon–VX provides three user–selectable levels of contrast enhancement.

Original picture   Without HQV Reon–VX   With HQV Reon–VX

Images simulated to show block noise reduction

Deep, dark blacks

Achieve astounding blacks with an incredible 75,000:1 contrast ratio, UltraBlack technology and Epson's exclusive Vertical Alignment (VA) LCD technology. With VA LCD technology, opaque (black) is the natural state. Signal voltage is applied to increase translucence (transmittance) as needed. This is a fundamental design and performance advantage — a complete re–thinking of LCD chip design. Conventional LCDs use Twisted Nematic chips, which are translucent in their natural state. Signal voltage is applied to reduce light throughput, but the inability to achieve correct Liquid Crystal alignment means that true black is impossible to achieve, as there will always be some leakage. VA technology is fundamentally correct, and results in true deep blacks since the molecules align uniformly with minimal stray light leakage.

TN Mode: Normally Translucent

Transmittance

Applied Voltage

A conventional TN (Twisted Nematic) LCD chip can't achieve a true opaque (black) condition.

VA Mode: Normally Opaque (black)

Transmittance

Applied Voltage

VA (Vertical Alignment) D7 LCD chips are naturally opaque (black). Signal voltage is applied to increase translucency (transmittance).
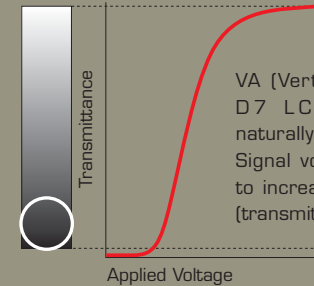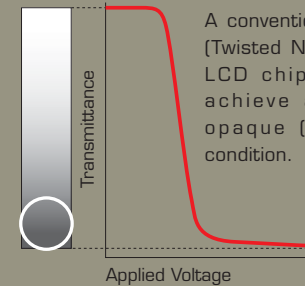
"black levels" simulated

Epson D7 chip with UltraBlack technology.

OptiCinema™ lens system

The OptiCinema lens system is a precision, high–quality, optical grade system. Co-developed with Fujinon, a top supplier of precision camera optics to the world's leading HD camera makers, this system offers:

• **Maximum picture uniformity**
• **Clarity across the entire screen**
• **Freedom from color fringing**
• **Precision focus with 2.1x zoom**
• **Maximum installation flexibility with 96% vertical/47% horizontal lens shift**

Epson's exclusive cinema filter

The PowerLite Home Cinema 6500 UB brings astounding, true–to–life color to images onscreen. This Epson–exclusive technology expands the color gamut to reproduce colors as filmmakers intended. This generates a more natural color palette and ensures a more vivid viewing experience.

115% of NTSC

——— Epson
- - - - - sRGB
·············· NTSC
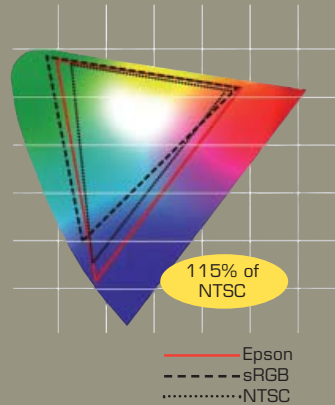
New, advanced, high–speed auto iris

Projector lamps work differently than incandescent lamps — they cannot be dimmed over a wide luminance range. Thus, the auto iris acts as a "light gate" to control lamp light output. A high–speed, high torque, precision motor and gearing allow shutter doors to very quickly control light output changes according to the picture level. The advanced auto iris adjusts light output up to 60 times per second. This new, advanced function now has a High–speed Mode, which operates at double the reaction speed, making this an ideal mode for fast–action movies and TV shows.

Energy–efficient E–TORL® lamp

The innovative E–TORL lamp, exclusively from Epson, is a reliable performer that delivers more lumens per watt and lasts up to 4000 hours.** Switch the projector to High Brightness Mode and the E–TORL lamp still produces up to 4000 hours of light performance. The special E–TORL design minimizes both light diffraction and light leakage, providing you the ultimate in lamp longevity — up to 50 percent more lamp life than with competitive products. And, E–TORL replacement lamps cost up to $150 less than competing replacement lamps. So, while the E–TORL lamp maximizes your movie viewing time, it also minimizes your costs.

FineFrame™ interpolation processing

Film is encoded on Blu-ray® at 24 frames per second. FineFrame deconstructs and reconstructs these sources for a 1080p frame rate output of up to 120 Hz, virtually eliminating flicker and frame–to–frame judder. The 4:4 pulldown function also makes corrections for improperly encoded sources, and features a reverse 2:3 pulldown detection and correction function.

PowerLite Home Cinema 6500 UB.

Exclusive E-TORL lamp for minimal light diffraction and leakage
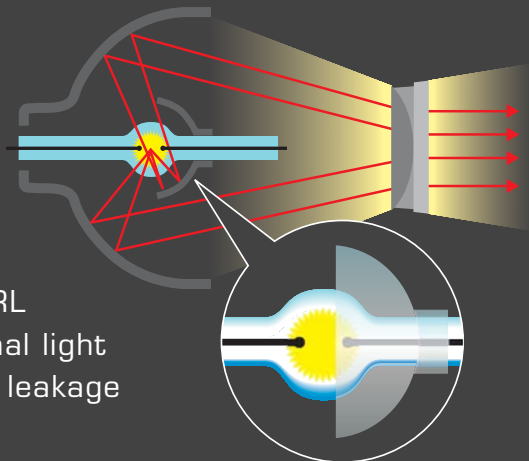
1080p video processing for 1.07 billion colors

Screen Resolution

Millions of Pixels Per Second

Screen Resolution	1	2	3	Pixels
1920 x 1080	1080p			2,073,600
1920 x 1080	1080i			1,036,800
1280 x 720	720p			921,600

New cabinet design

The PowerLite Home Cinema 6500 UB has been thoroughly re–engineered with a new, luxury case design to accommodate several performance enhancements:

- The internal air flow management system has been designed and improved for greater efficiency. Air flow control paths now have more direct routes through the components to the exit point.

- New, cushioned mounts in the main lamp valve fan offer improved noise reduction and absorption. The speeds of the lamp valve fan, exhaust fan, and main lamp fan have been reduced by 20 – 50%, further contributing to quieter operation.

- The new, highly–efficient filtration system has five times the surface area of the previous–generation 1080 models, providing longer filter life and greater efficiency.

State–of–the–art features and blockbuster performance.

Projection System	3LCD, 3–chip optical engine Poly–silicon TFT active matrix
Resolution	Native 1080p (1920 x 1080)
Projection Methods	Front/ Rear/ Ceiling Mount
Aspect Ratio	Native 16:9 widescreen (4:3 resize); Compatible with 4:3 and 2.35:1 video formats with Normal, Full or Zoom Modes
Lumens*	1600 lumens color light output
	1600 lumens white light output (ISO 21118 standard)
Contrast Ratio (in Dynamic Color Mode)	Up to 75,000:1
Color Processing	Full 12–bit
7 Color Modes	Dynamic, Living Room, Natural, Theater, Theater Black 1, Theater Black 2, x.v.Color
Zoom Ratio	Manual 2.1x
Projection Lens	F-number: 2.0 – 3.17, 22.5 – 47.2 mm focal length
16:9 Widescreen Image Size (projected distance)	100" diagonal (wide: 9.8' – tele: 20.9')
Lens Shift	Vertical: 96.3% max (up and down)
	Horizontal: 47.1% max (left and right)
Fan Noise	22 dB – 31 dB
Lamp	200 W UHE (Ultra High Efficiency) E-TORL
Lamp Life**	Up to 4000 hours
Dimensions (W x D x H)	17.7" x 15.5" x 5.4" (excluding feet)
Weight	16.5 lb
Video Input Signal	NTSC/ NTSC4.43/ PAL/ M-PAL/ N-PAL/ PAL60/ SECAM/ 480i/ 576i/ 480p/ 576p/ 720p/ 1080i/ 1080p
Terminal Inputs	2 HDMI 1.3a, 1 RCA (composite), 1 x 3 RCA (component), 1 Mini DIN (S-video), 1 D-Sub 15 pin (Analog RGB), 1 D-Sub 9 pin (RS-232c)
Video Compatibility	HDMI, HDTV, Component video, S–video, Composite video, NTSC/ PAL/ SECAM, Analog RGB (PC only)

* Light output varies depending on modes (color and white light output).

** Lamp life will vary depending upon mode selected, environmental conditions and usage. Lamp brightness decreases over time.

***Actual photographs of images produced by 2 competing projectors run in default mode. Price, resolution, brightness (white light output) are the same for both projectors.

SUPPORT — THE EPSON CONNECTION℠

Pre–sales support: U.S. and Canada 800-463-7766

Internet website: www.epson.com

WARRANTY

Two year parts and labor limited warranty, 90-day lamp warranty, Epson Home Service Program and Epson Private Line dedicated toll-free support (U.S. and Canada only)

WHAT'S IN THE BOX

Power cable

Remote control

2 batteries

User manual

ACCESSORY PART NUMBERS

Replacement lamp	V13H010L49
Air filter	V13H134A21
Ceiling mount	ELPHB550

EPSON®
EXCEED YOUR VISION

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HDMI   x.v.Color   HQV SILICON OPTIX   UltraBlack